

AIR MONITORING FOR EMERGENCY RESPONSE (165.4)

2 DAYS

This course instructs participants in the practices and procedures for monitoring airborne hazardous materials. It is designed for personnel who evaluate accidental airborne releases of hazardous materials. Evaluation of worker exposure to these releases is emphasized.

Topics that are discussed include air monitoring programs, techniques, and equipment; instrument calibration; instrument limitations; exposure guidelines; air dispersion modeling; and health and safety considerations. The course will include operating procedures for specific air monitoring equipment, as well as strategies for air monitoring at accidental releases of hazardous chemicals.

Instructional methods include a combination of lectures, group discussions, problem-solving sessions, and laboratory and field exercises with hands-on use of instruments.

After completing the course, participants will be able to:

- Properly use the following types of air monitoring and sampling equipment:
 - Combustible gas indicators
 - Oxygen monitors
 - Detector tubes
 - Toxic gas monitors
 - Photoionization detectors
 - Flame ionization detectors
- Identify the operational parameters, limitations, and data interpretation requirements for the instruments listed above.
- Identify the factors to be considered in the development of air monitoring plans.
- Discuss the use of air monitoring data for the establishment of personnel and operations health and safety requirements.

Note: Calculators are recommended.

Continuing Education Units: 1.5

ABIH Certification Maintenance points: 2.0